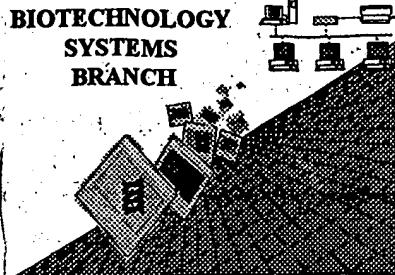


Copy

04/2002

07/06

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/036,959

Source: 0196

Date Processed by STIC: 1/19/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. **EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission**

User Manual - ePAVE

2. **U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202**

3. **Hand Carry directly to:**

**U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202**

Or

**U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202**

4. **Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202**

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/036,959

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped
Please also adjust the "(ii) NUMBER OF SEQUENCES." response to include the skipped sequences.

8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence

11 Use of <220>
- - - - - Sequence(s) 16 missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/036,959

DATE: 01/19/2002
TIME: 10:55:19

Input Set : A:\CL1792 US NA Seq Listing.txt
Output Set: N:\CRF3\01192002\J036959.raw

p.6

5 <110> APPLICANT: Hallahan, David
6 Keiper-Hrynk, Natalie
10 <120> TITLE OF INVENTION: Genes Involved in the Biosynthesis of Isopentenyl
Diphosphate in
11 Hevea brasiliensis Latex
15 <130> FILE REFERENCE: CL1792 US NA
19 <140> CURRENT APPLICATION NUMBER: US/10/036,959
19 <141> CURRENT FILING DATE: 2002-01-02
19 <150> PRIOR APPLICATION NUMBER: 60/307,637
20 <151> PRIOR FILING DATE: 2001-07-25
24 <160> NUMBER OF SEQ ID NOS: 16
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Does Not Comply
Corrected Diskette Needed

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51 ggtgcgggta	tacccaattt	agtgattttgt	accaccattt	ataaagttt	tgcacgggg	300
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/036,959

DATE: 01/19/2002
TIME: 10:55:19

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Output Set: N:\CRF3\01192002\J036959.raw

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PATENT APPLICATION: US/10/036,959

DATE: 01/19/2002
TIME: 10:55:19

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/036,959

DATE: 01/19/2002

TIME: 10:55:20

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371	attattattt	ctgtggtaa	ttcacggcag	aaagaaacga	gtagcaccac	aggaatgcgt	660
373	gagactgtt	aaaccagctt	gcttttgc	catacata	aggagata	acccaaacgc	720
375	attgtacaaa	tggaaagatc	cataaaaaac	cgcaatttt	catctttgc	acacttaaca	780
377	tgtgctgata	gtaccatgtt	ccatgctgc	tgcatggata	catgtcc	aattttctac	840
379	atgaacgata	catcacacag	gataatcagc	tgtgttgc	aatggatgc	ttctgttagga	900
381	acacccatgg	tggcttatac	ttttgtatgt	gggccta	cagttctaa	tgcacataat	960
383	aggaaggccg	ctgcccagtt	actgcagaag	ctgttttct	atttccctcc	aaatttctgt	1020
385	actgaattaa	acaggatgt	tcttgggtat	aagtcaatac	taaaagatgc	tggattgaa	1080
387	gatttgaagg	atgtggaa	attgcacca	cctccagaaa	ttaaagatgc	cccaagat	1140
389	aaaggggatg	ttagttat	catctgtaca	agaccaggcc	agggtccgg	tttgc	1200
391	gttggaaatg	aggctctc	cagccctgaa	actgggc	tttgc	ctaaa	1245
394	<210>	SEQ ID NO: 7					
396	<211>	LENGTH: 696					
398	<212>	TYPE: DNA					
400	<213>	ORGANISM: Hevea brasiliensis					

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/036,959

DATE: 01/19/2002

TIME: 10:55:20

Input Set : A:\CL1792 US NA Seq Listing.txt
 Output Set: N:\CRF3\01192002\J036959.raw

404 <400> SEQUENCE: 7
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 407 gttgtgttgc cccgcacacc gatgggtgaa tttcttgggt cgctatgtac tttatctgcc 120
 409 accaaactgg gatctatagc cattgaagct gctcttaaaa gggctaatgt tgatccatca 180
 411 cttgtacaag aagtttctt tggaaatgtt ctcagtgcata atttagggca ggctcctgct 240
 413 agacaggctg cattaggtgc aggaattcct aattcagtgg tctgtaccac tggtaacaaa 300
 415 gttgtgttgc cggggatgaa agcaactatg cttgcagccc agagtatcca gttaggcata 360
 417 aatgtatgtt ttgtgtctgg aggcatggag agcatgtcca atgcacccaa atacctagca 420
 419 gaagcaagga agggatctcg acttggacat gattcaactag ttgatggaaat gctgaaagat 480
 421 ggggtgtggg atgttataa tggatgttgc atggaaagtt gtgctgaaat atgtgctgat 540
 423 aatcattcaa taacgaggga ggtcaggat aaatttgcata ttcacagttt tgaacgcggt 600
 425 attgctgcac aagaaagtgg tgcctttgca tggaaattt ttccgggttga agttcgaag 660
 427 gggcaaggag gaaactatga ctggcatgtg gttgt 696
 430 <210> SEQ ID NO: 8
 432 <211> LENGTH: 411
 434 <212> TYPE: PRT
 436 <213> ORGANISM: Hevea brasiliensis
 440 <400> SEQUENCE: 8
 442 Met Ser Pro Ser Ser Asp Ser Ile Asn Pro Arg Asp Val Cys Ile Val 15
 443 1 5 10 15
 445 Gly Val Ala Arg Thr Pro Met Gly Gly Phe Leu Gly Ser Leu Ser Ser 30
 446 20 25 30
 448 Phe Ser Ala Thr Lys Leu Gly Ser Ile Ala Ile Gln Ala Ala Leu Lys 45
 449 35 40 45
 451 Arg Ala Asn Val Asp Pro Ser Leu Val Gln Glu Val Phe Phe Gly Asn 60
 452 50 55 60
 454 Val Leu Ser Ala Asn Leu Gly Gln Ala Pro Ala Arg Gln Ala Ala Leu 80
 455 65 70 75 80
 457 Gly Ala Gly Ile Pro Asn Ser Val Ile Cys Thr Thr Ile Asn Lys Val 95
 458 85 90 95
 460 Cys Ala Ser Gly Met Lys Ala Thr Met Leu Ala Ala Leu Thr Ile Gln 110
 461 100 105 110
 463 Val Gly Ile Asn Asp Ile Val Val Ala Gly Gly Met Glu Ser Met Ser 125
 464 115 120 125
 466 Asn Ala Pro Lys Tyr Leu Ala Glu Ala Arg Arg Gly Ser Arg Leu Gly 140
 467 130 135 140
 469 His Asp Thr Ile Ile Asp Gly Met Leu Lys Asp Gly Leu Trp Asp Val 160
 470 145 150 155 160
 472 Tyr Asn Asp Phe Gly Met Gly Val Cys Ala Glu Ile Cys Ala Asp Gln 175
 473 165 170 175
 475 His Asn Ile Thr Arg Glu Glu Lys Asp Ser Tyr Ala Ile Arg Ser Phe 190
 476 180 185 190
 478 Glu Arg Gly Asn Ser Ala Gln Asn Gly Gly Val Phe Ser Trp Glu Ile 205
 479 195 200 205
 481 Val Pro Val Glu Val Ser Gly Gly Arg Gly Lys Ser Val Met Val Val 220
 482 210 215 220
 484 Asp Lys Asp Glu Gly Leu Ile Lys Phe Asp Ala Ala Lys Leu Arg Lys 235 240
 485 225 230 235
 487 Leu Arg Pro Ile Ser Arg Ile Gly Ser Val Thr Ala Gly Asn Ala Ser

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6

<210> 16

<211> 25

<212> DNA

<213> Artificial Sequence

see item 11 on Env Summary Sheet

<400> 16

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/036,959

DATE: 01/19/2002
TIME: 10:55:21

Input Set : A:\CL1792 US NA Seq Listing.txt
Output Set: N:\CRF3\01192002\J036959.raw

L:19 M:270 C: Current Application Number differs, Replaced Current Application No
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1113 M:258 W: Mandatory Feature missing, <220> FEATURE:
L:1113 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: